

What is Claimed is Claim:

1. A trigger operated pump dispenser for simultaneously dispensing first and second liquids separately stored in respective first and second liquid compartments, comprising:

a pump body having pump means in fluid communication with said liquid compartments for simultaneous suctioning liquid therefrom and for discharging suctioned fluid to a mixing manifold;

said pump means including a pair of side-by-side pump pistons respectively operating in a pair of side-by-side pump cylinders;

a trigger lever pivotally mounted to said pump body and engaging said pistons for simultaneously reciprocating said pistons upon trigger actuation; and

nozzle means in communication with said manifold having a pair of nozzles with discharge orifices for the dual discharge of the fluids combined in the mixing chamber.

2. The pump dispenser according to claim 1, wherein said nozzle means is mounted on a probe extending from said manifold for rotatable movement between discharge open and closed positions, said nozzles having atomizing means for atomizing the discharged combined fluids in the discharge open position.

3. The pump dispenser according to claim 1, wherein said mixing manifold is located at a downstream end of a pair of side-by-side discharge barrels through which the suctioned fluids flow upon trigger actuation.
4. The pump dispenser according to claim 2, wherein the probe extends into a sleeve mounted on the nozzle means cooperating longitudinal grooves on the probe and the sleeve aligning in the discharge open position and misaligning in the discharge closed position upon rotation of the nozzle means.
5. The pump dispenser according to claim 1, wherein said nozzle means includes a housing having a chamber with a single inlet port in communication with said mixing manifold, said housing further having a pair of nozzle passages respectively terminating in a pair of discharge orifices of said nozzles.
6. The trigger operated pump dispenser for simultaneously dispensing first and second fluids separately stored in separate first and second compartments, respectively, comprising:

a pump body having pump means in fluid communication with said compartments for simultaneously suctioning fluids and for discharging suctioned fluid to a mixing manifold;

said pump means including a pair of side-by-side pump pistons operating in a pair of side-by-side pump cylinders defining separate variable volume pump chambers;

a trigger actuator pivotally mounted to said pump body and engaging said piston for simultaneous reciprocation thereof;

said pump chambers respectively communicating with said compartments and with a pair of separate discharge passages located in said pump body;

one-way discharge valve means associated with said discharge passages;
and

nozzle means mounted in communication with said mixing manifold and having a pair of spray nozzles with discharge orifices through each of which a mixture of the first and second fluids are sprayed toward a target.

7. The pump dispenser according to claim 6, wherein said nozzle means is mounted to said manifold for rotation between discharge open and closed positions.
8. The pump dispenser according to claim 7, wherein said nozzle means and said manifold have mating positions with discharge openings which align to open the discharge in one selected rotative position and which misalign to close the discharge in another selected rotative position.
9. The trigger actuated pump dispenser for simultaneously dispensing first and second fluids from first and second compartments stored separately, comprising:

a pump body having pump means defining separate piston-cylinder units in fluids communication with said fluids compartments for simultaneously suctioning fluid therefrom and for discharging suctioned fluid;

said pump body having a pair of fluid passages respectively through which the first and second fluids are discharged;

a manifold coupled to said passages for the reception of the first and second fluids through one-way discharge valves and for combining the first and second fluids into a combined mixture, the manifold having a single discharge channel for the mixture; and

a nozzle on the manifold having a pair of separate spin mechanics assemblies in communication with said discharge channel through which the mixture is simultaneously discharged as sprayer.

10. The pump dispenser according to claim 9, wherein the nozzle is mounted to the manifold for rotation between discharge open and closed position.